

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Chris Aschoff et al.

Confirmation No.:

Application No.:

Examiner:

Filing Date: Herewith

Group Art Unit:

Title: FLUID EJECTION DEVICE ADHERENCE

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

☒ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231. Date of Deposit: July 24, 2003  
OR

☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_  
Number of pages: \_\_\_\_\_

Typed Name: Gina Pierson

Signature: Gina Pierson

Respectfully submitted,

Chris Aschoff et al.

By Tod A. Myrum  
Tod A. Myrum

Attorney/Agent for Applicant(s)

Reg. No. **42,922**

Date: **July 24, 2003**

Telephone No. **(612) 312-2200**

FORM PTO-1449  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	100204589-1		
	APPLICANT		
	Chris Aschoff et al.		
	FILING DATE	GROUP	
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## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	20020030720	March 14, 2002	Kawamura et al.	
	1B	4,683,481	July 28, 1987	Johnson	
	1C	4,678,529	July 7, 1987	Drake et al.	
	1D	5,751,324	May 12, 1998	Brandon et al.	
	1E	6,215,946	April 10, 2001	Sherrer	
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L	EP 0 795 406	Sept 17 1997	Lexmark Int'l, Inc.		
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1O	Hewlett-Packard, Co. Patent Application Serial No. 10/262,406, filed Sept. 30, 2002
	1R	American Society for Precision Engineering, Kaiji Sato et al., "Self-Alignment of Microparts using Liquid Surface Tension-Examination of the Alignment Characteristics", 2000, pp. 345-348.
	1S	IMTEK- Institute for Microsystem Technology, Albert Ludwig University, Andreas Greiner et al., "Capillary Forces in Micro-Fluidic Self-Assembly".

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## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Emerson & Cuming, Technical Data Sheet, AMICON E 1172 Fast Flow-Snap Cure Capillary Flow Underfill.
	1R	GPD Global, "Liquid Encapsulation Protects Electronic Components", March 20, 2001, pp. 1-5.
	1S	L. Gopalakrishnan et al., "Encapsulant Materials for Flip-Chip Attach", pp. 1291-1297, copyright 1998 IEEE.

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## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Loctite Electronics, "Materials for Semiconductor Packaging", pp. 1-19.
	1R	
	1S	

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